



# Key Issues to Look for When Reviewing IWMM Data

**Note:** Similar to an Access database, the AKN functions as a relational data information system with multiple information tables that relate by a key or set of keys. Within IWMM, this is how observation data and site condition data relate. Each are stored as individual tables, but are grouped when both the LOCATION and DATE fields match.

When creating a new 'site visit' record for the first time, a user records both observation AND site condition data at the same time. However, if the user deletes the observation record or makes a change to the date or location, they **must** make the same change to the site condition record or the two will be disassociated.

Data issues may include the following, along with recommended solutions:

### 1. Within one record, bird species and count are repeated on two separate lines

**Solution:** Either combine records into one line if applicable, or delete one instance of the species (original data sheets will be needed).

#### Observations

Species observations with details, layout and titles dependent on protocol.

[Quick Tips >>](#)

☒ Scroll observations (Beta)

Observation Protocol: IWMM\_GroundSurvey  
Total Birds Counted: 181

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Species ⓘ	Count ⓘ	Note ⓘ	
AMCO	18		<a href="#">✕</a>
GADW	17		<a href="#">✕</a>
PBGR	1		<a href="#">✕</a>
GWTE	10		<a href="#">✕</a>
UNTE	5		<a href="#">✕</a>
NSHO	72		<a href="#">✕</a>
KILL	1		<a href="#">✕</a>
MALL	3		<a href="#">✕</a>
AMWI	7		<a href="#">✕</a>
RNDU	5		<a href="#">✕</a>
UNDU	25		<a href="#">✕</a>
MALL	6		<a href="#">✕</a>
GRYE	1		<a href="#">✕</a>
GWTE	10		<a href="#">✕</a>

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## Avian Knowledge Network (AKN) Help Documentation

### 2. Multiple surveys (visits) for the same date and location

#### 2.1 Surveys are exact copies

**Solution:** Review each survey against the original data sheets. If surveys are exact duplicates, delete one instance.

Review / edit an existing visit

Review and edit an existing visit below by selecting the date.

Quick Tips >>

82 rows

Download CSV

Date	Visit	Count	Start Time	End Time	Protocol	Status
2016-10-12		439	08:10	09:00	IWMM_GroundSurvey	CLEAN
2016-09-28		83	08:00	09:05	IWMM_GroundSurvey	CLEAN
2016-09-28		83	08:00	09:05	IWMM_GroundSurvey	CLEAN

#### 2.2 Surveys are not exact copies

**Solution:** Review each survey against the original data sheets and decide if one or all are correct. For the remaining survey(s), review the original data sheets to determine if they belong under a different date and/or unit location or if they should be deleted from the database.

Review / edit an existing visit

Review and edit an existing visit below by selecting the date.

Quick Tips >>

Note same date and location, but different start and end times

29 rows

Download CSV

Date	Visit	Count	Start Time	End Time	Protocol	Status
2016-12-07		16	09:20	09:30	IWMM_GroundSurvey	CLEAN
2016-11-23		118	09:20	09:40	IWMM_GroundSurvey	CLEAN
2016-11-09		0	09:25	09:30	IWMM_GroundSurvey	CLEAN
2016-10-26		45	09:00	11:00	IWMM_GroundSurvey	CLEAN
2016-10-26		45	08:45	09:10	IWMM_GroundSurvey	RAW
2016-09-28		0	09:00	09:07	IWMM_GroundSurvey	CLEAN



## Avian Knowledge Network (AKN) Help Documentation

Review / edit an existing visit

Review and edit an existing visit below by selecting the date.

Quick Tips >>

79 rows

Download CSV

Date	Visit	Count	Start Time	End Time	Protocol	Status
2017-01-04		5379	06:00	08:00	IWMM_GroundSurvey	CLEAN
2017-01-04		138	08:42	09:54	IWMM_GroundSurvey	CLEAN
2017-01-04		220	10:01	10:33	IWMM_GroundSurvey	CLEAN
2016-12-28		4880	06:00	08:00	IWMM_GroundSurvey	CLEAN

### 3. Misspelled or inaccurate data entries within free text fields.

**Solution:** Although free text fields are necessary in the database to record data, they also allow for misspellings and data errors. Be sure to check the following free text fields for errors:

- Notes
- Salinity
- Gauge level
- Number other observers
- Other observer names

Overview

Quick Tips >>

**Project:** ~~BITTER LAKE NW~~

**Site:** ~~Unit 6 (NM 001-16)~~

**Date** : 2016-09-28

**Observation Protocol:** IWMM\_GroundSurvey

**Start time** : 08:00

**End time** : 09:05

**Observer** : ~~Deborah Joffe~~

**# of other observers** : 2

**Other observer names** : Jim Montgomery, Patricia O'bryan

**Notes** : Click to edit

**Data Sharing Level** : CLEAN



## Avian Knowledge Network (AKN) Help Documentation

Overview

Quick Tips >>

Project:	DIFFERD-KENWV
Site:	Unit 5 (NM 001-116)
Date	2016-09-28
Observation Protocol:	IWMM_GroundSurvey
Start time	08:00
End time	09:05
Observer	Beauchamp, Jeff
# of other observers	2
Other observer names	Jim Montgomery, Patricia O'Byron
Notes	<a href="#">Click to edit</a>
Data Sharing Level	CLEAN

#### 4. More than one site condition record shows up when reviewing a survey (visit)

**Solution:** When reviewing a survey (visit) you may see more than one table for environmental site conditions. This may or may not indicate an error in the data. Review the original data sheets to confirm which site conditions are valid, or decide if one or more site condition tables need to be deleted from the database or relocated to the appropriate date and/or location. (See the screenshot below for guidance).

One explanation for multiple site condition tables per survey (visit) is that site conditions are tied to an observation record by date and location. If you have multiple surveys (visits) for the same date/location you will see all related site condition tables within each survey (visit).



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**Site (Project):** MAXWELLNWR (Project Leader) **MAXWELLNWR details** **Type:** Area Search **Location:** Lake 13 (NM-003-L13)

## 🕒 Visits

Would you like to add a new visit and observations, or review / edit an existing visit's details?

[Quick Tips >>](#)

**+** Create a new visit

Choose from the protocols below and select the **Start** button.

[Quick Tips >>](#)

**Observation protocol ⓘ**  
IWMM\_GroundSurvey - IWMM Ground-based Survey

**Environmental conditions protocol ⓘ**  
IWMM\_SurveySiteConditions - IWMM Site Conditions During Waterbird Survey

**Start** **Environmental condition only**

**← Edit an existing environmental condition record here**

**✎** Review / edit an existing visit

Review and edit an existing visit below by selecting the date.

[Quick Tips >>](#)

10 rows

[Download CSV](#)

Date ⓘ	Visit ⓘ	Count ⓘ	Start Time ⓘ	End Time ⓘ	Protocol ⓘ	Status ⓘ
2017-04-03		3371	08:41	09:02	IWMM_GroundSurvey	CLEAN
2016-11-30		2944	09:07	09:55	IWMM_GroundSurvey	CLEAN
2016-11-15		7973	09:27	10:05	IWMM_GroundSurvey	CLEAN
2016-11-01		6711	10:39	11:20	IWMM_GroundSurvey	CLEAN
2016-10-24		20163	12:32	13:45	IWMM_GroundSurvey	CLEAN

**+** Create a new condition

Choose from the protocols below and select the **Start** button.

[Quick Tips >>](#)

**Environmental conditions protocol ⓘ**  
IWMM\_SurveySiteConditions - IWMM Site Conditions During Waterbird Survey

**Start** **New Observations**

**← Click here to go back to the previous page to view all surveys (visits) and associated observation data**

**✎** Review / edit an existing condition

Review and edit an existing condition below by selecting the date.

[Quick Tips >>](#)

8 rows

[Download CSV](#)

Date ⓘ	Time ⓘ	Protocol ⓘ
2010-03-04	08:05	IWMM_SurveySiteConditions
2016-09-18	05:30	IWMM_SurveySiteConditions
2017-04-01	05:15	IWMM_SurveySiteConditions
2017-09-11	09:30	IWMM_SurveySiteConditions
2017-09-20	06:00	IWMM_SurveySiteConditions
2017-11-07	15:00	IWMM_SurveySiteConditions
2018-03-01	08:32	IWMM_SurveySiteConditions
2018-05-01	07:44	IWMM_SurveySiteConditions